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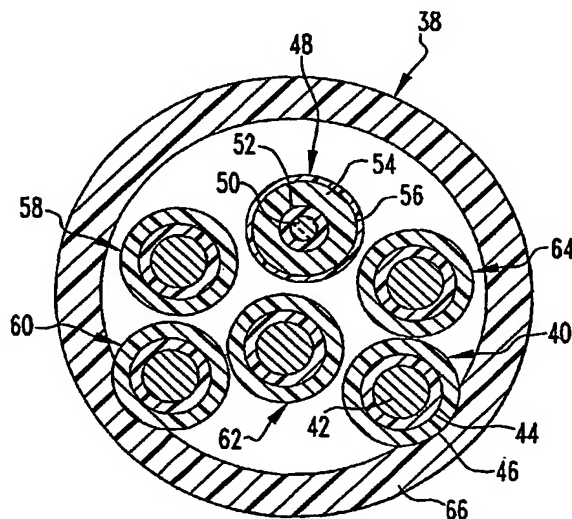
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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ELECTRO-OPTICAL CABLE FOR USE IN TRANSMISSION OF HIGH VOLTAGE AND OPTICAL SIGNALS UNDER EXTREMES OF TEMPERATURE



(57) Abstract: An electro-optical cable (38) which includes an optical element (48) having an elongated glass fiber core (50), a medial cushioning layer (54) concentrically surrounding the glass fiber core, and an outer hard shell (56) material surrounding the medial cushioning layer. The cable also includes at least one electrically conductive element (40) comprising an elongated conductive core (42) and a dielectric layer (44) concentrically surrounding the electrically conductive element.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/37435

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G02B 6/44

US CL : 385/101

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 385/100-114,123,128

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,002,359 A (SAYEGH) 26 March 1991 (26.03.1991), see entire document.	17-20
Y		1-16
Y,P	US 6,600,108 B1 (MYDUR et al) 29 July 2003 (29.07.2003), column 4 and column 6 line 56-column 7 line 22.	1-16

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

USPTO EAST

search terms: PTFE, TEFLON, polytetrafluoroethylene, PEEK, polyetheretherketone, cable, electr\$ with optic\$, polyimide